



Did you know
...DNA molecules are being used in an attempt to construct miniature machines?
...scientists have genetically altered chicken to produce cancer-fighting protein in egg whites? *...genetically altered giant artichokes are being grown in Spain to produce electricity?*
...researchers have restored sight to blind dogs with a genetically altered gene? *These are but a few of the ways advances in biotechnology affect different aspects of our lives.*

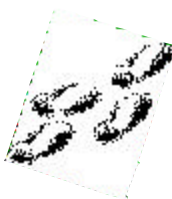
What exactly is biotechnology?

Biotechnology takes advantage of biological processes in very precise ways to make products or provide services like those listed above.

Other products include proteins used in medications, a DNA "fingerprint" used to identify certain individuals, or salmon raised in a fish farm.

Why study biotechnology?

It affects every aspect of our daily lives, so understanding it can help us make decisions that affect our health, our environment and our future. The biotechnology pathway can lead to a wide variety of exciting careers--some which have not even been discovered! Biotechnology careers include: health care, law and ethics, pharmaceuticals, agriculture, bioinformatics, genomics, aquaculture, and biomanufacturing.



Researchers Restore Blind Dogs' Sight



Following A Path To Biotechnology

What courses should I take in high school?

Biotechnology requires a good foundation in Math--at least **Algebra II**. **English** and **Language Arts** are always essential. **Biology** and **Chemistry** provide the scientific background. An introduction to **Computers** is very helpful, especially if you are interested in the new BioInformatics field. **Microbiology** would also be helpful. **Biotechnology Programs** are also offered at some regional vocational centers in NH.

Where can I study Biotechnology in college?

The **New Hampshire Community Technical Colleges** offer a certificate and a two-year associate degree program that

articulates (will transfer credits) to the **Rochester Institute of Technology** and **UNH**. The **University of New Hampshire** offers degrees in Microbiology; Molecular, Developmental, and Cellular Biology; and Biochemistry. **Plymouth State College** offers a Bachelor of Science degree in Biotechnology. There is a graduate cooperative BioInformatics program at **Northeastern University** and **Boston University**.

For more information, contact Kathleen H. Totten, Eastern Region Partnership at 433-1964.

Brought to you by:

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 New Hampshire Career Resource Network

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